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UTILITY PATENT APPLICATION TRANSMITTAL

2557-000220/US Attorney Docket No.

First Inventor

SANG-HYEOP LEE; HEE-KOOK CHOI; and CHEOL-JOON YOO

Title

MOLDING METHOD AND MOLD FOR ENCAPSULATING BOTH SIDES OF PCB MODULE WITH WAFER LEVEL PACKAGE MOUNTED PCB

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)

Applicant claims small entity status.

(preferred arrangement set forth below)

- Reference to sequence listing, a table, or a computer program listing appendix

- Cross References to Related Applications

- Brief Description of the Drawings (if filed)

- Statement Regarding Fed sponsored R & D

Descriptive title of the Invention

- Background of the Invention - Brief Summary of the Invention

- Detailed Description

- Abstract of the Disclosure

Drawing(s) (35 U.S.C.113)

1.63(d)(2) and 1.33(b).

6. Application Data Sheet. See 37 CFR 1.76

or in an Application Data Sheet under 37 CFR 1.76:

a. Newly executed (original or copy)

i. DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s)

named in the prior application, see 37 CFR

□ Divisional

Harness, Dickey & Pierce, P.L.C.

- Claim(s)

5. Oath or Declaration

☐ Continuation

Name

Address

Country

Name (Print/Type)

City

Prior application information:

□ Customer Number or Bar Code Label

P.O. Box 8910

United States of America

John A. Caş

Reston

See 37 CFR 1.27.

Specification

Commissioner for Patents APPLICATION ELEMENTS Box Patent Application ADDRESS TO: P.O. Box 1450 See MPEP chapter 600 concerning utility patent application contents. Alexandria, VA 22313-1450 7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) 8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) [Total Pages a. Computer Readable Form (CRF) b. Specification Sequence Listing on: i. CD-ROM or CD-R (2 copies); or ii. D paper c. Statements verifying identity of above copies **ACCOMPANYING APPLICATIONS PARTS** 9. 🛛 Assignment Papers (cover sheet & document(s)) 10. 37 C.F.R.§3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. 🔲 [Total Sheets 6 Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations [Total Pages 13. 🔲 **Preliminary Amendment** 14. 🔯 Return Receipt Postcard (MPEP 503) b. Copy from a prior application (37 CFR 1.63 (d)) (Should be specifically itemized) (for a continuation/divisional with Box 18 completed) 15. 🛛 Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. 🔲 Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other: 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, ☐ Continuation-in-part (CIP) of prior application No: _ Group / Art Unit: For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts. 17. CORRESPONDENCE ADDRESS Correspondence address below (Insert Customer No. or Attach bar code label here) VA 20195 State Zip Code Telephone 703-668-8000 Fax 703-668-8200 Registration No. (Attorney/Agent) 35.094 February 6, 2004

Signature Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are fequired to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.



PTO/SB/17 (10-01)
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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| FEE TRANSMITTAL for FY 2003 | | Complete if Known | | | | |
|---|-------------|---------------------|--|--|--|--|
| | | Application Number | NEW | | | |
| 1011120 | ,,,, | Filing Date | February 6, 2004 | | | |
| | | Inventor(s) | SANG-HYEOP LEE;HEE-KOOK CHOI; and CHEOL-JOON YOO | | | |
| Patent fees are subject to annual revision. | | Examiner Name | UNASSIGNED | | | |
| | | Group / Art Unit | UNASSIGNED | | | |
| TOTAL AMOUNT OF PAYMENT | (\$) 810.00 | Attorney Docket No. | 2557-000220/US | | | |

| Claims 3 -3 ** = 0 X 86 = 0 Recording each patent assignment | METHOD OF PAYMENT (check one) | | | FEE CALCULATION (continued) | | | | | | |
|--|--|--------------------|-------------------------|-----------------------------|--|-------|--------|-------------------------------------|---|----------|
| Deposit Account Harmoss, Dickey & Perce, P.L.C. 1962 1963 1963 1963 1964 1965 1964 1965 | | | | 3. ADDITIONAL FEES | | | | | | |
| Deposit Account Harness, Dickey & Pierce, PLC. 1051 130 2051 65 Surcharge - late filing fee or oath 1054 1056 1057 1058 105 | 1. Indicated fees and credit any over payments to: | | | | | | | | | |
| Account Harness, Dickey & Pierce, P.L.C. 1052 50 2052 25 Surcharge - late filling fee or oath 1052 50 2052 25 Surcharge - late filling fee or oath 1052 50 2052 25 Surcharge - late filling fee or oath 1052 250 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1053 1055 | D | | | | Fee | | Fee | | For Boundaries . | Fee |
| Number | | 08-0750 | | | | | | | Fee Description | Paid |
| Deposit Harriess, Dickey & Pierce, P.L.C. 1633 1053 1053 1053 1053 1053 1053 1053 1055 130 Non-English specification | | | | 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | | |
| Account Harmess, Dickey & Pierce, P.L.C. 1953 1053 1053 1050 | | | | | 1052 | 50 | 2052 | 25 | | |
| Charge Arry Additional Fee Required Under 37 CFR 1.13 and 1.17 1904 920* 1804 920* 1804 920* Requesting publication of SIR prior to Examiner action 1905 1,840* 1805 1,8 | | Harness, [| Dickey & Pierce, P.L. | с. | 1053 | 1053 | 1053 | 130 | Non-English specification | |
| Under 37 CFR 1.16 and 1.17 | Name | | | | 1812 | 2,520 | 1812 | 2,520 | For filing a request for reexamination | |
| See 37 CFR 127 | | | | | 1804 | 920* | 1804 | 920* | | |
| 2. Payment Enclosed: | , '' | | | 1805 | 1,840* | 1805 | 1,840* | | | |
| | 2. 🛛 Payme | nt Enclosed: | | | 1251 | 110 | 2251 | 55 | | \vdash |
| 1. | | | | 1 | | | | , , | \vdash | |
| 1. BASIC FILING FEE | | | | | _ | | | month | <u> </u> | |
| 1. BASIC FILING FEE | | FEE | E CALCULATION | | | | | | • • | \vdash |
| Fee | 1. BASIC FILING FEE | | | 1254 | 1,480 2 | 2254 | 740 | • • | | |
| Code (\$) Code (\$) Code (\$) Fee Pald 1402 330 2402 155 Filing a brief in support of an appeal 1402 330 2402 155 Filing a brief in support of an appeal 1403 290 2403 145 Request for oral hearing 145 Request for oral he | Large Entity | Small Entit | ty | | 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month | |
| 1001 770 2001 385 Utility filling fee 770 1402 330 2402 145 Filling ab Prefix in Support of an appeal 1403 290 2403 145 Request for oral hearing 1403 290 2403 145 Request for Section 1403 290 2403 145 Request for oral hearing 1403 290 2403 145 Request for oral hearing 1404 2403 240 | | | Fee Description | | 1401 | 330 | 2401 | 165 | Notice of Appeal | |
| 1002 340 2002 170 Design filing fee | | | I MILL FILL TO | | 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal | |
| 103 530 203 265 Plant filing fee 1451 1,510 1451 1,510 Protection to institute a public use proceeding 1452 110 2452 55 Petition to revive – unavoidable 1453 1,330 2453 665 Petition to revive – unavoidable 1453 1,310 2452 250 240 Design issue fee 1460 130 1460 130 1460 130 Petition to the Commissioner 1460 130 1460 130 Petition to the Commissioner 1460 130 1460 130 Petition to the Commissioner 1460 130 | | | | 770 | 1403 | 290 | 2403 | 145 | Request for oral hearing | |
| 1005 160 2005 80 Provisional filling fee | | | | | 1451 | 1,510 | 1451 | 1,510 | | |
| SUBTOTAL (1) (\$)770 1501 1,330 2501 665 Utility issue fee (or reissue) 1502 480 2502 240 Design issue fee 1503 640 2503 320 Plant issue fee 1503 Plant issue fee 1503 640 2503 320 Plant issue fee 1503 Plant issue fee 1603 Plant issue fee 1603 Plant is | 1004 770 | 2004 385 | Reissue filing fee | | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| Subtotal (1) | 1005 160 | 2005 80 | Provisional filling | fee | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional | |
| 2. EXTRA CLAIM FEES Extra | | | | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) | | |
| Total Claims 16 | | SUBTO | TAL (1) | (\$)770 | 1502 | 480 | 2502 | 240 | Design issue fee | |
| Total Claims | 2. EXTRA CLAII | M FEES | | | 1503 | 640 | 2503 | 320 | Plant issue fee | |
| Total Claims | | | Extra Fe | ee from Fee | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| Independent Claims Multiple Dependent Large Entity Small Entity Fee Fee Fee Fee Code (\$) Code (\$) Code (\$) I80 | L | | | | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17 (q) | |
| Multiple Dependent Large Entity Small Entity Fee Fee Fee Fee (\$) Code (\$) Code (\$) Code (\$) Page of the standard over original patent 1201 86 2201 43 Independent claims in excess of 3 1204 86 2204 43 "Reissue independent claims over original patent" 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent" SUBTOTAL (2) (\$) 0 "Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 Page of the pa | Independent | = | | | 1806 | 180 | 1806 | 180 | | |
| Large Entity Small Entity Fee Fee Fee Fee (\$) Code (\$) Fee Description 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue independent claims over original patent" 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent SUBTOTAL (2) (\$) 0 1809 · 770 2809 385 Filing a submission after final rejection (37 CFR § 1.129(a)) 1810 770 2810 385 For each additional invention to be examined (37 CFR § 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application Other fee (specify) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 | Multiple | 3 | <u> </u> | | 8021 | 40 | 8021 | 40 | per property (times number of | 40 |
| Fee Code (\$) Code (\$) Fee Description 1810 770 2810 385 For each additional invention to be examined (37 CFR § 1.129(b)) 18202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue Independent claims over original patent 1810 770 2810 385 For each additional invention to be examined (37 CFR § 1.129(b)) 1801 770 2801 385 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application 1803 900 1802 900 Request for expedited examination of a design application 1804 770 2801 385 Request for Continued Examination (RCE) 1805 900 1802 900 Request for expedited examination of a design application 1806 1807 900 1802 900 Request for expedited examination of a design application 1807 900 1802 900 Request for expedited examination of a design application 1808 900 1802 900 Request for expedited examination of a design application 1809 900 1802 900 Request for expedited examination of a design application of a design | | Small E | ∟ ntity | | 1809 · | 770 | 2809 | 385 | Filing a submission after final rejection | |
| 1202 18 2202 9 Claims in excess of 20 1201 86 2201 43 Independent claims in excess of 3 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent SUBTOTAL (2) (\$) 0 Claims in excess of 20 1801 770 2801 385 Request for Continued Examination (RCE) 1802 900 1802 900 Request for expedited examination of a design application Other fee (specify) *Reduced by Basic Filing Fee Paid SUBTOTAL (3) . (\$) 40 | | | Fee Descripti | on | 1810 | 770 | 2810 | 385 | For each additional invention to be | |
| 1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent SUBTOTAL (2) (\$) 0 TReissue claims in excess of 20 and over original patent SUBTOTAL (2) (\$) 0 TReduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 | 1202 18 | | • | ess of 20 | | | | | exammed (37 CFH 9 1.129(D)) | \vdash |
| 1204 86 2204 43 ** Reissue Independent claims over original patent 1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent SUBTOTAL (2) (\$) 0 **Reduced by Basic Filing Fee Paid SUBTOTAL (3) . (\$) 40 | 1201 86 | 2201 4 | 3 Independent c | laims in excess of 3 | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) | |
| 1204 86 2204 43 "Reissue independent claims over original patent 1205 18 2205 9 "Reissue claims in excess of 20 and over original patent" SUBTOTAL (2) (\$) 0 "Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 | 1203 290 | 2203 1 | 45 Multiple deper | dent claim, if not paid | 1802 | 900 | 1802 | 900 | Request for expedited examination | |
| Other fee (specify) SUBTOTAL (2) (\$) 0 *Reduced by Basic Filing Fee Paid SUBTOTAL (3) . (\$) 40 | 1204 86 | 2204 4 | | | | | | | of a design application | |
| *Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$) 40 | 1205 18 | 2205 9 | | | | | | | | |
| | | | | | AD 1 4 1 1 2 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 5 1 | | | | | |
| | **or number previo | usly paid, if grea | ater; For Reissues, see | above | | | | | | |

| SUBMITTED BY | | | - | Co | mplete (if applicable) |
|-------------------|--------------------|----------------------------------|--------|-----------|------------------------|
| Name (Print/Type) | John A. Castellano | Registration No. Attorney/Agent) | 35,094 | Telephone | 703-668-8000 |
| Signature | X | X UWV | | Date | February 6, 2004 |